

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (previously presented) A twisted pair cable comprising a plurality of pairs, each of said pairs comprising:

two assemblies, a first assembly comprising:

a first conductor, said first conductor being closer to a second conductor of a second assembly than to an outer surface opposite said conductors;

an inner insulator surrounding the first conductor;

an outer insulator surrounding the inner insulator;

an inner edge of the first assembly defined by a surface of the first assembly closest to a second assembly in the same pair; and

an outer edge of the first assembly defined by a surface of the first assembly farthest from the second assembly in the same pair, the outer edge of the first assembly being farther from the first conductor than the inner edge of the first assembly over the length of the pair.

2. (Cancelled)

3. (currently amended) A twisted pair cable comprising a plurality of pairs, each of said pairs comprising:

two conductor assemblies, a first assembly comprising:

a first conductor, said first conductor being closer to a second conductor of a second assembly than to an ~~out~~ outer surface opposite said conductors over the length of the pair;

at least one layer of insulator surrounding the first conductor;

an inner edge of the first assembly defined by a surface of the first assembly closest to a second conductor assembly in the same pair; and

an outer edge of the first assembly defined by a surface of the first assembly farthest from the second conductor assembly in the same pair.

4. (Cancelled)

5. (previously presented) A twisted pair cable according to claim 1, wherein said inner insulator is an extrudable polymer, and wherein said outer insulator is an extrudable elastomer.

6. (original) A twisted pair cable according to claim 5, wherein said extrudable polymer has a modulus of elasticity greater than 64 Kpsi at room temperature, a dielectric constant lower than 2.5 and a loss factor lower than 0.0003 between 1 MHz and 1 GHz; and wherein said elastomer has a modulus of elasticity lower than 35 Kpsi at room temperature.

7. (original) A twisted pair cable according to claim 1, wherein said inner insulator is an extrudable elastomer and wherein said outer insulator is an extrudable polymer.

8. (original) A twisted pair cable according to claim 7, wherein said extrudable polymer has a modulus of elasticity greater than 64 Kpsi at room temperature, a dielectric constant lower than 2.5 and a loss factor lower than 0.0003 between 1 MHz and 1 GHz; and wherein said elastomer has a modulus of elasticity lower than 35 Kpsi at room temperature.

9. (previously presented) A twisted pair cable according to claim 1, wherein the first assembly further comprises a middle insulator, said inner and outer insulators being extrudable elastomers and wherein said middle insulator is an extrudable polymer.

10. (original) A twisted pair cable according to claim 5, wherein said extrudable elastomer further includes a carrier for color and flame retardant additives.

11. (original) A twisted pair cable according to claim 5, wherein said elastomer is foamed.

12. (Cancelled)

13. (original) A twisted pair cable according to claim 5, wherein said extrudable polymer is foamed, and wherein said elastomer has a modulus of elasticity lower than 35 Kpsi at room temperature.

14. (original) A twisted pair cable according to claim 7, wherein said elastomer and said extrudable polymer are foamed.

15. (original) A twisted pair cable according to claim 5, wherein said elastomer thickness is greater than 15 % of the overall insulation thickness.

16. (original) A method for making a twisted pair cable comprising:

(a) providing a first and a second conductor, each of said first and said second conductor being insulated with an inner insulator and an outer insulator, one of said inner and outer insulator having a modulus of elasticity lower than 35 Kpsi at room temperature, the other of said inner and outer insulator having a modulus of elasticity greater than 64 Kpsi;

(b) stretching said first and second conductor at a sufficient angle and by an amount sufficient to effect a permanent deformation of the insulator having the lower modulus of elasticity, but not enough to effect a permanent deformation of the insulator having the higher modulus of elasticity; and

(c) twisting said first and second conductors together; and

(d) manufacturing a cable with a plurality of said pairs.

17. (previously presented) A twisted pair cable comprising a plurality of pairs, each of said pairs comprising:

two assemblies, a first assembly comprising:

a first conductor;

an inner insulator surrounding the first conductor;

an outer insulator surrounding the inner insulator;

an inner edge of the first assembly defined by a surface of the first assembly closest to a second assembly in the same pair; and

an outer edge of the first assembly defined by a surface of the first assembly farthest from the second assembly in the same pair, the outer edge of the first assembly being farther from the first conductor than the inner edge of the first assembly over the length of the pair; and

a second assembly comprising:

a second conductor;

an inner insulator surrounding the second conductor;

an outer insulator surrounding the inner insulator;

an inner edge of the second assembly defined by a surface of the second assembly closest to the first assembly in the same pair; and

an outer edge of the second assembly defined by a surface of the second assembly farthest from the first assembly in the same pair, the outer edge of the second assembly being farther from the second conductor than the inner edge of the second assembly over the length of the pair.